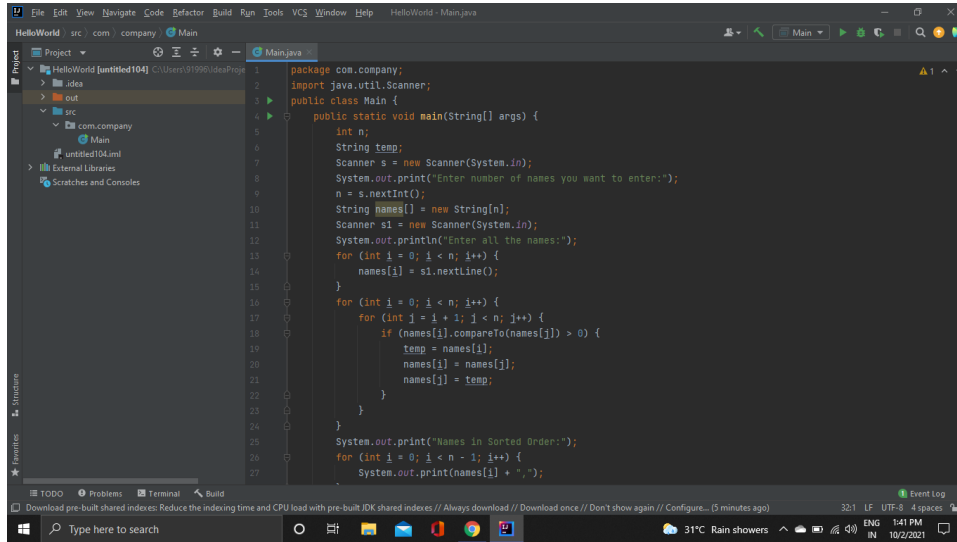
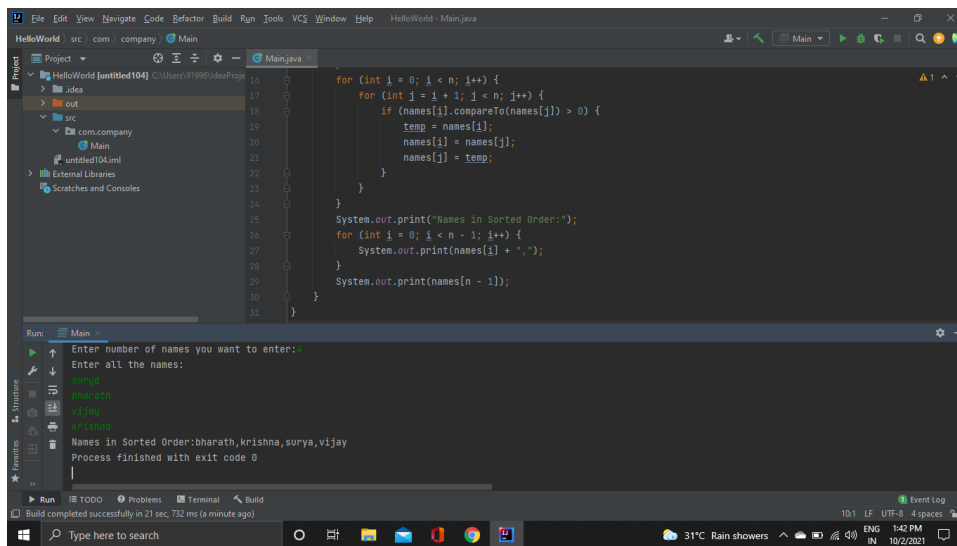


1.) Java Program to Sort Strings in an Alphabetical Order

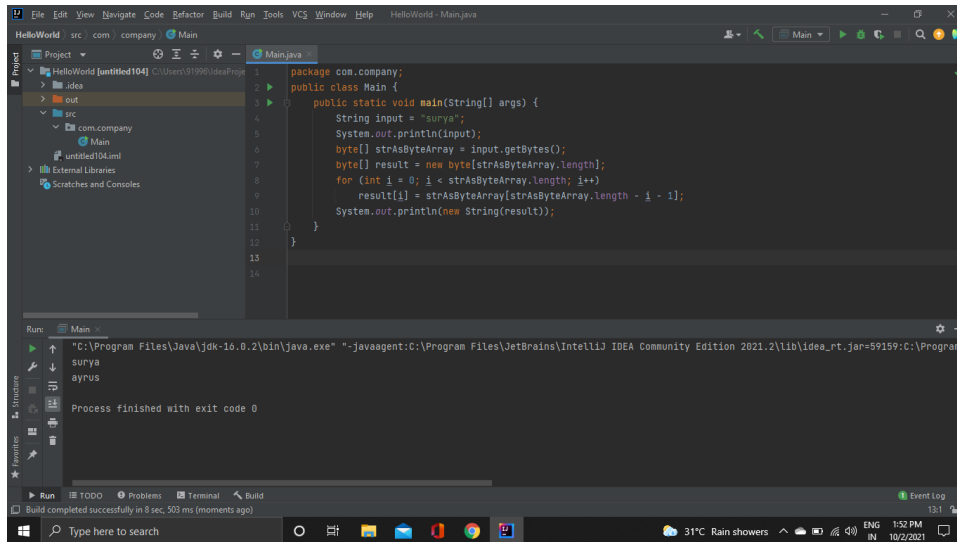


```
1 package com.company;
2 import java.util.Scanner;
3 public class Main {
4     public static void main(String[] args) {
5         int n;
6         String temp;
7         Scanner s = new Scanner(System.in);
8         System.out.print("Enter number of names you want to enter:");
9         n = s.nextInt();
10        String names[] = new String[n];
11        Scanner s1 = new Scanner(System.in);
12        System.out.println("Enter all the names:");
13        for (int i = 0; i < n; i++) {
14            names[i] = s1.nextLine();
15        }
16        for (int i = 0; i < n; i++) {
17            for (int j = i + 1; j < n; j++) {
18                if (names[i].compareTo(names[j]) > 0) {
19                    temp = names[i];
20                    names[i] = names[j];
21                    names[j] = temp;
22                }
23            }
24        }
25        System.out.print("Names in Sorted Order:");
26        for (int i = 0; i < n - 1; i++) {
27            System.out.print(names[i] + ",");
28        }
```

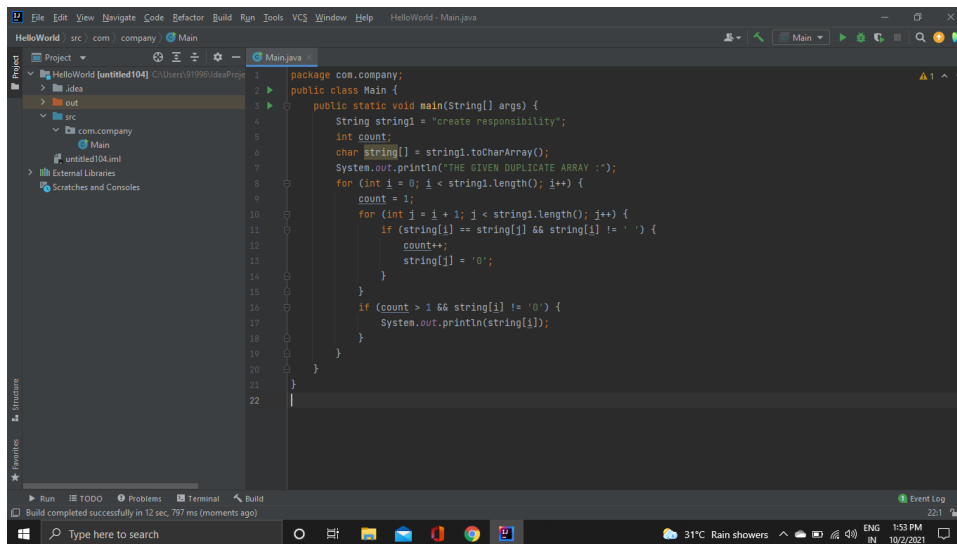


```
Run: Main
Enter number of names you want to enter: 5
Enter all the names:
bharath
krishna
surya
vijay
aravind
Names in Sorted Order:bharath,krishna,surya,vijay
Process finished with exit code 0
```

2. Program to reverse a String



3. Java program to find duplicate characters in a String



```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help HelloWorld - Main.java
HelloWorld src com company Main
Project
  HelloWorld [untitled104] C:\Users\91996\IdeaProje
    > idea
    > out
    > src
      > com.company
        > Main
        > untitled104.xml
    > External Libraries
    > Scratches and Consoles
Main.java
11
12
13
14
15
16
17
18
19
20
21
22
if (string[i] == string[j] && string[i] != ' ') {
    count++;
    string[j] = '0';
}
if (count > 1 && string[i] != '0') {
    System.out.println(string[i]);
}
}
}

Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=58843:C:\Program
THE GIVEN DUPLICATE ARRAY :

Process finished with exit code 0

Run TODO Problems Terminal Build Event Log
All files are up-to-date (moments ago)
Type here to search 31°C Rain showers ENG IN 1:53 PM 10/2/2021
```

4. Check whether String is palindrome

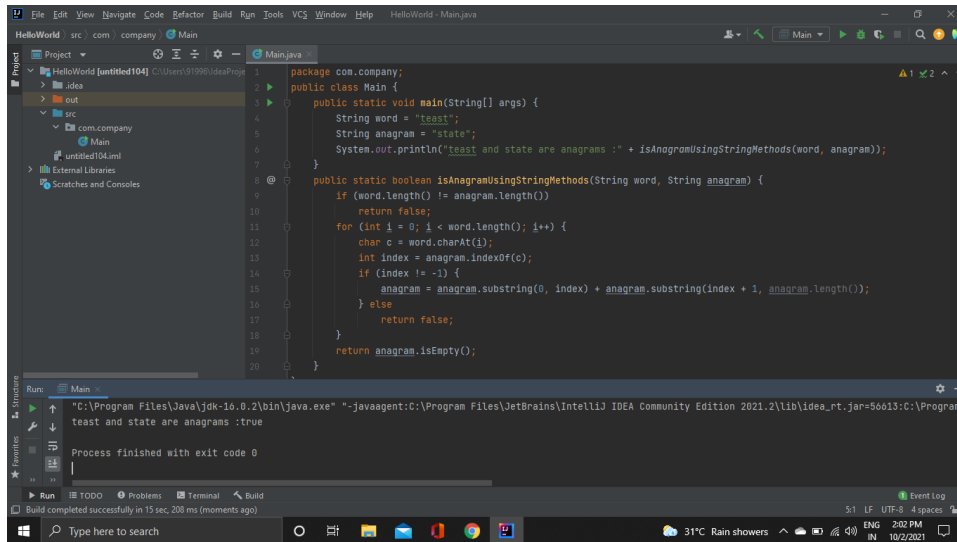
```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help HelloWorld - Main.java
HelloWorld src com company Main
Project
  HelloWorld [untitled104] C:\Users\91996\IdeaProje
    > idea
    > out
    > src
      > com.company
        > Main
        > untitled104.xml
    > External Libraries
    > Scratches and Consoles
Main.java
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
public class Main {
    public static void main(String[] args) {
        String string="malayalam";
        boolean flag = false;
        String string1=string.toLowerCase();
        int i;
        for(i=0; i<string.length(); i++){
            flag = true;
            break;
        }
        if(flag){
            System.out.println("This is palindrome");
        }
        else{
            System.out.println("this a not palindrome");
        }
    }
}

Run: Main
"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=52814:C:\Program
This is palindrome

Process finished with exit code 0

Run TODO Problems Terminal Build Event Log
Build completed successfully in 11 sec, 761 ms (moments ago)
201 LF UTF-8 4 spaces
Type here to search 31°C Rain showers ENG IN 1:55 PM 10/2/2021
```

5. check if two Strings are anagrams of each other

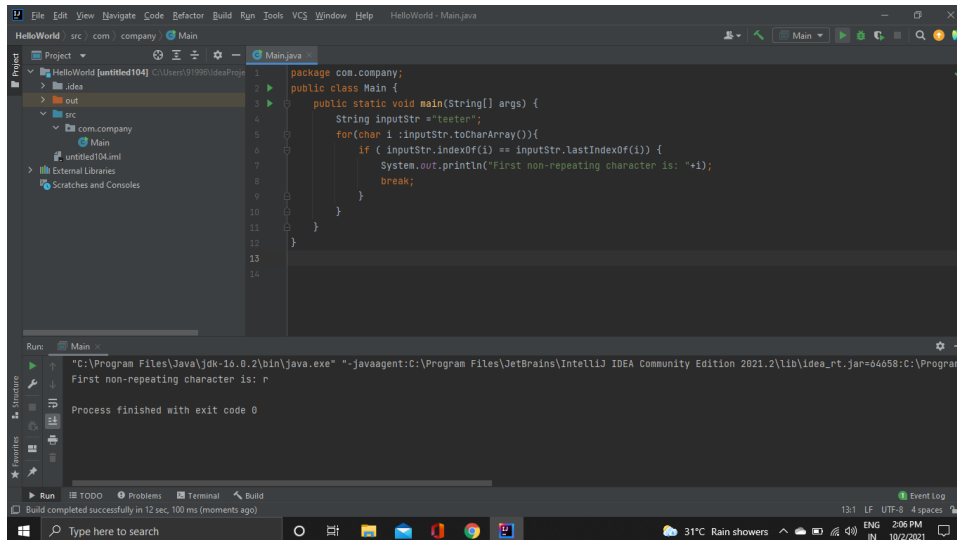


The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying a Java program that checks if two strings, 'teast' and 'state', are anagrams. The program uses a method 'isAnagramUsingStringMethods' which compares the sorted characters of both strings. The output in the Run console is 'teast and state are anagrams :true'.

```
1 package com.company;
2 public class Main {
3     public static void main(String[] args) {
4         String word = "teast";
5         String anagram = "state";
6         System.out.println("teast and state are anagrams : " + isAnagramUsingStringMethods(word, anagram));
7     }
8     public static boolean isAnagramUsingStringMethods(String word, String anagram) {
9         if (word.length() != anagram.length())
10            return false;
11         for (int i = 0; i < word.length(); i++) {
12             char c = word.charAt(i);
13             int index = anagram.indexOf(c);
14             if (index != -1) {
15                 anagram = anagram.substring(0, index) + anagram.substring(index + 1, anagram.length());
16             } else
17                 return false;
18         }
19         return anagram.isEmpty();
20     }
21 }
```

Run: Main -
"C:\Program Files\Java\jdk-10.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=56013:C:\Program Files\Java\jdk-10.0.2\bin" -jar C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin\idea.jar
teast and state are anagrams :true
Process finished with exit code 0
Build completed successfully in 13 sec 208 ms (moments ago)

6. program to print first non repeated character from String

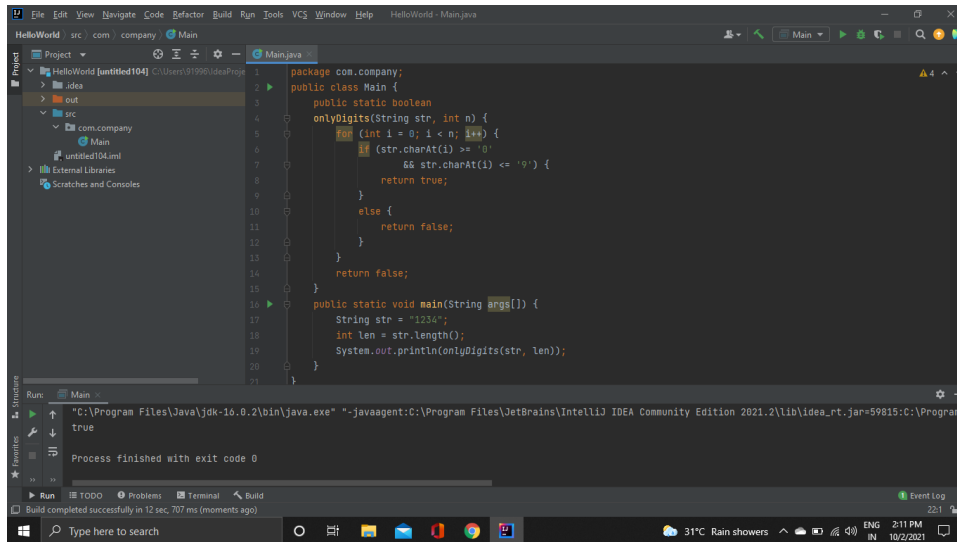


The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying a Java program that prints the first non-repeating character from the string 'teeter'. The program iterates through the characters and checks if the current character's index is equal to its last index. The output in the Run console is 'First non-repeating character is: r'.

```
1 package com.company;
2 public class Main {
3     public static void main(String[] args) {
4         String inputStr = "teeter";
5         for (char i : inputStr.toCharArray()) {
6             if (inputStr.indexOf(i) == inputStr.lastIndexOf(i)) {
7                 System.out.println("First non-repeating character is: " + i);
8                 break;
9             }
10        }
11    }
12 }
```

Run: Main -
"C:\Program Files\Java\jdk-10.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=64658:C:\Program Files\Java\jdk-10.0.2\bin" -jar C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin\idea.jar
First non-repeating character is: r
Process finished with exit code 0
Build completed successfully in 12 sec 100 ms (moments ago)

7. check if a String contains only digits

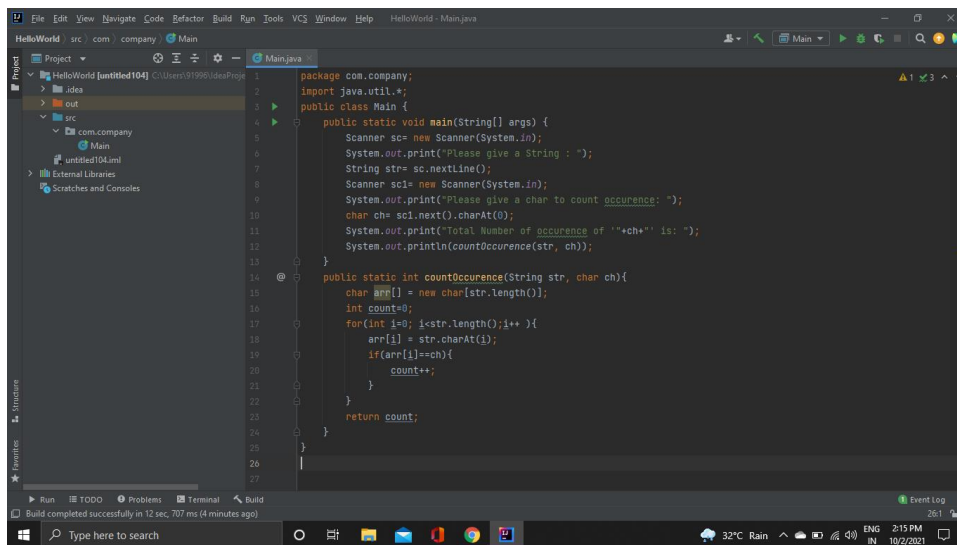


The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying the following code:

```
1 package com.company;
2 public class Main {
3     public static boolean
4     onlyDigits(String str, int n) {
5         for (int i = 0; i < n; i++) {
6             if (str.charAt(i) >= '0'
7                 && str.charAt(i) <= '9') {
8                 return true;
9             }
10            else {
11                return false;
12            }
13        }
14        return false;
15    }
16    public static void main(String args[]) {
17        String str = "1234";
18        int len = str.length();
19        System.out.println(onlyDigits(str, len));
20    }
21 }
```

The 'Run' button is clicked, and the output window shows 'true'. The status bar at the bottom indicates 'Build completed successfully in 12 sec, 707 ms (moments ago)'.

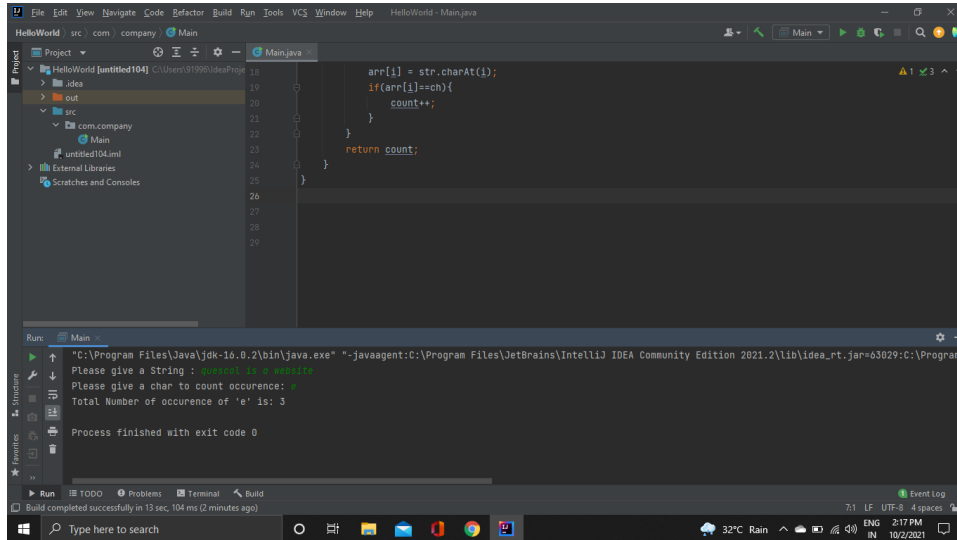
8. count the occurrence of a given character in String



The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying the following code:

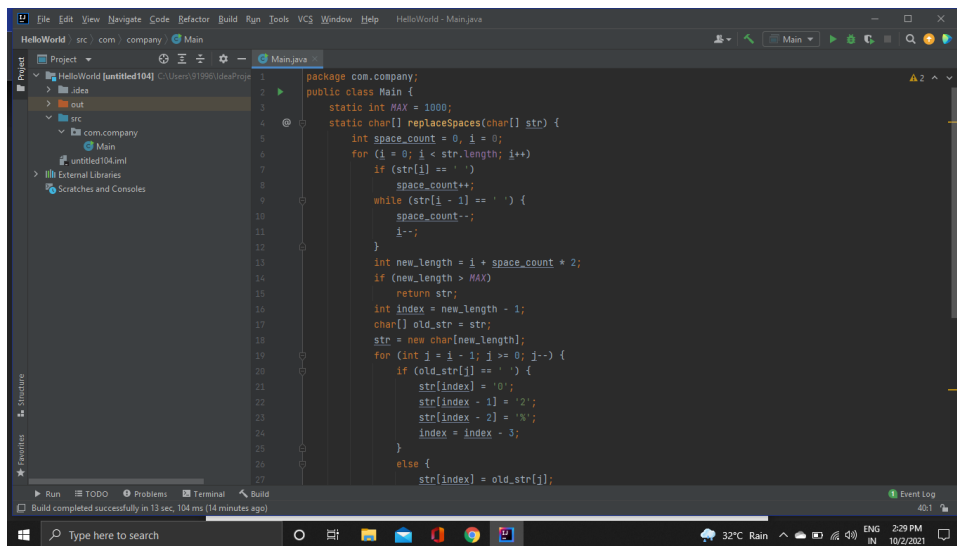
```
1 package com.company;
2 import java.util.*;
3 public class Main {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6         System.out.print("Please give a String : ");
7         String str = sc.nextLine();
8         Scanner sc1 = new Scanner(System.in);
9         System.out.print("Please give a char to count occurrence: ");
10        char ch = sc1.next().charAt(0);
11        System.out.print("Total Number of occurrence of '"+ch+"' is: ");
12        System.out.println(countOccurrence(str, ch));
13    }
14    public static int countOccurrence(String str, char ch){
15        char arr[] = new char[str.length()];
16        int count=0;
17        for(int i=0; i<str.length();i++){
18            arr[i] = str.charAt(i);
19            if(arr[i]==ch){
20                count++;
21            }
22        }
23        return count;
24    }
25 }
26
27 |
```

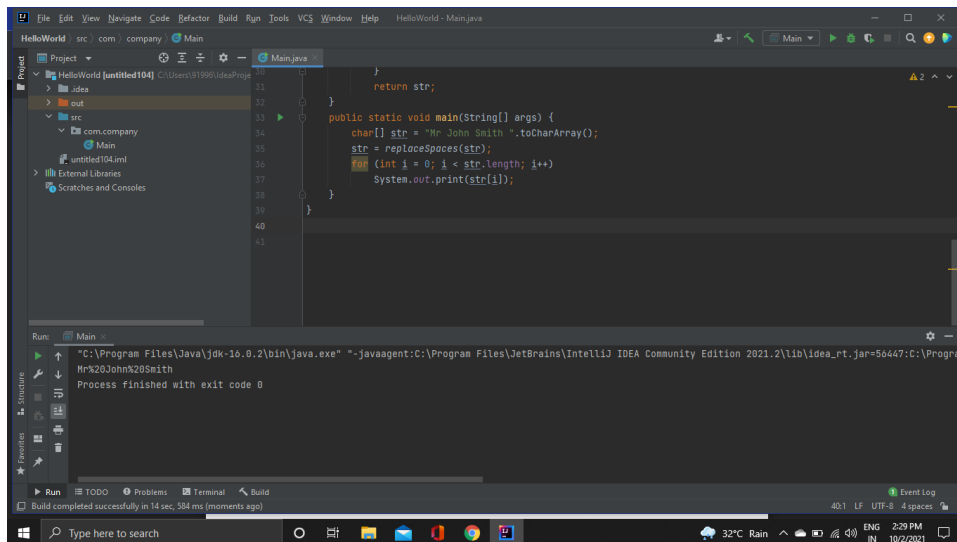
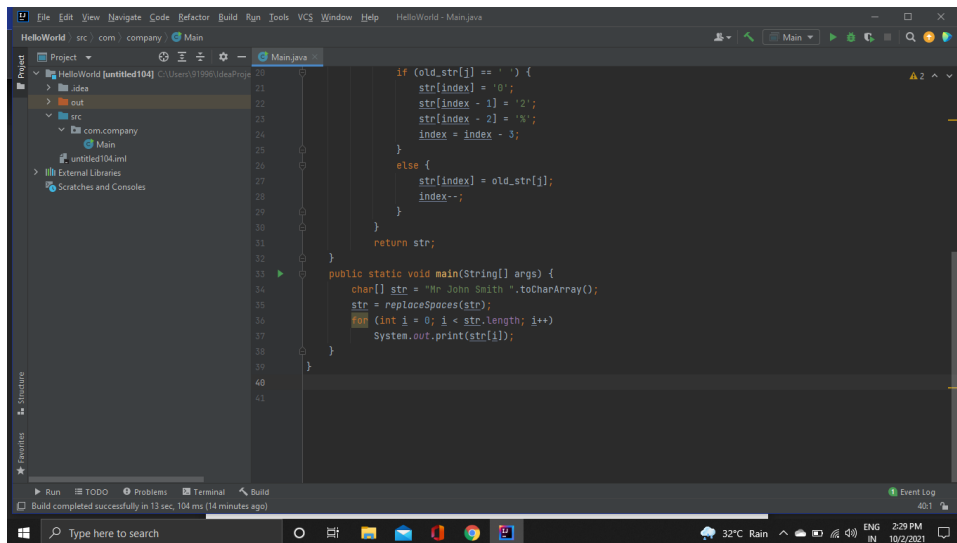
The 'Run' button is clicked, and the output window shows '2:15 PM 10/2/2021'. The status bar at the bottom indicates 'Build completed successfully in 12 sec, 707 ms (4 minutes ago)'.



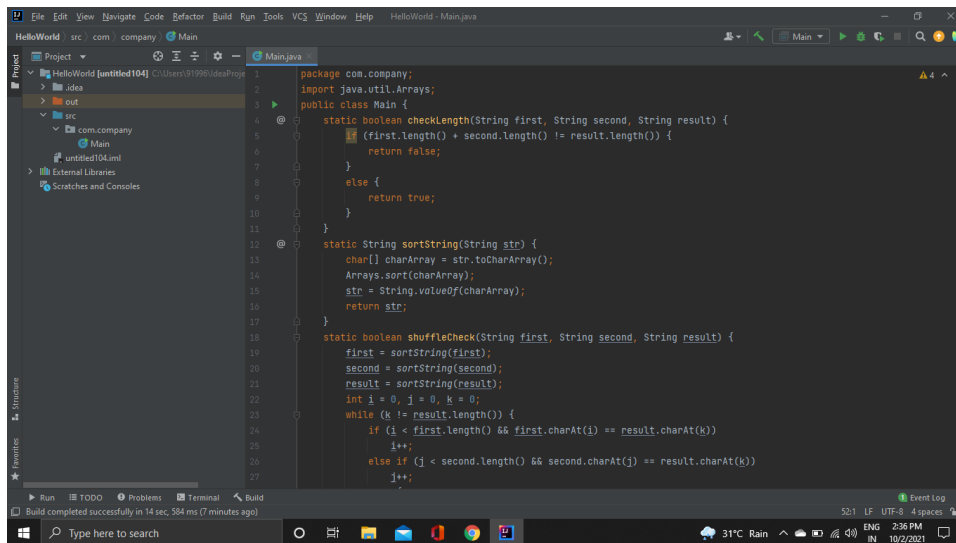
9. replace each given character to other e.g. blank with %20

"Java is Great" and asked to replace space with %20 then it should be

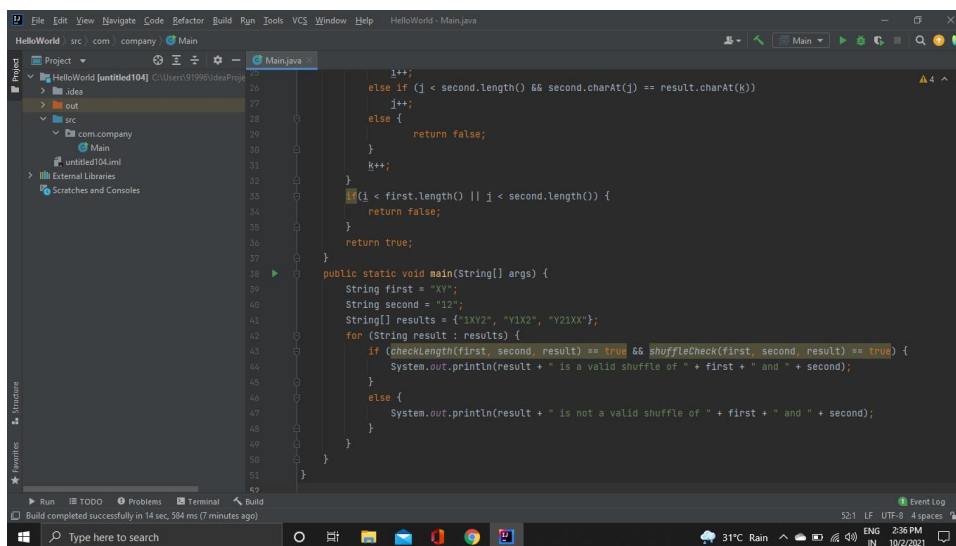




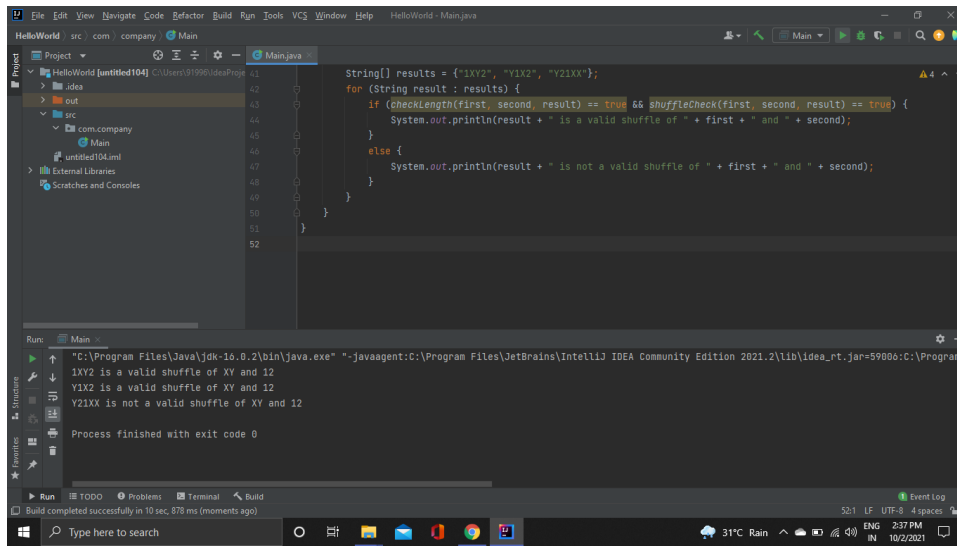
10. check if a String is a valid shuffle of two String



```
package com.company;
import java.util.Arrays;
public class Main {
    static boolean checkLength(String first, String second, String result) {
        if (first.length() + second.length() != result.length()) {
            return false;
        }
        else {
            return true;
        }
    }
    static String sortString(String str) {
        char[] charArray = str.toCharArray();
        Arrays.sort(charArray);
        str = String.valueOf(charArray);
        return str;
    }
    static boolean shuffleCheck(String first, String second, String result) {
        first = sortString(first);
        second = sortString(second);
        result = sortString(result);
        int i = 0, j = 0, k = 0;
        while (k != result.length()) {
            if (i < first.length() && first.charAt(i) == result.charAt(k))
                i++;
            else if (j < second.length() && second.charAt(j) == result.charAt(k))
                j++;
            else
                return false;
            k++;
        }
        return true;
    }
}
```

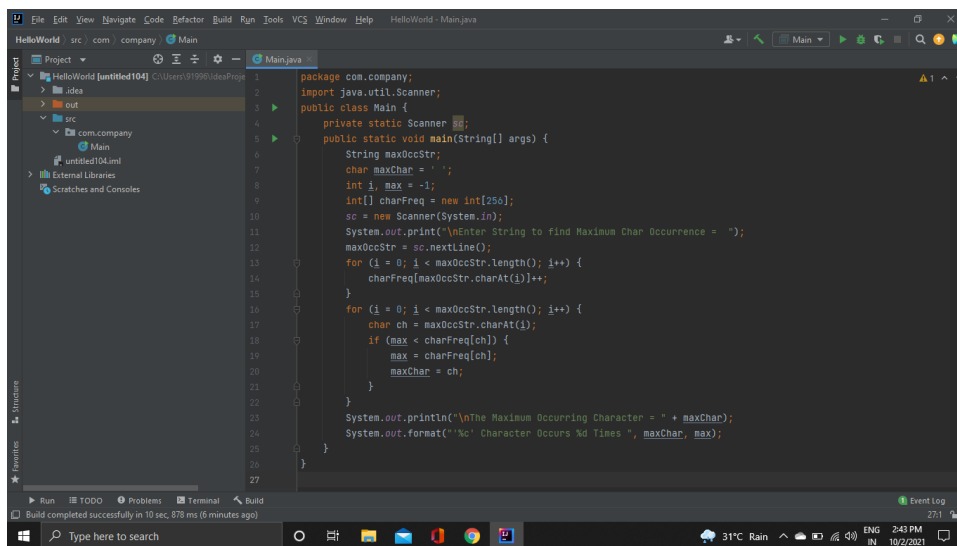


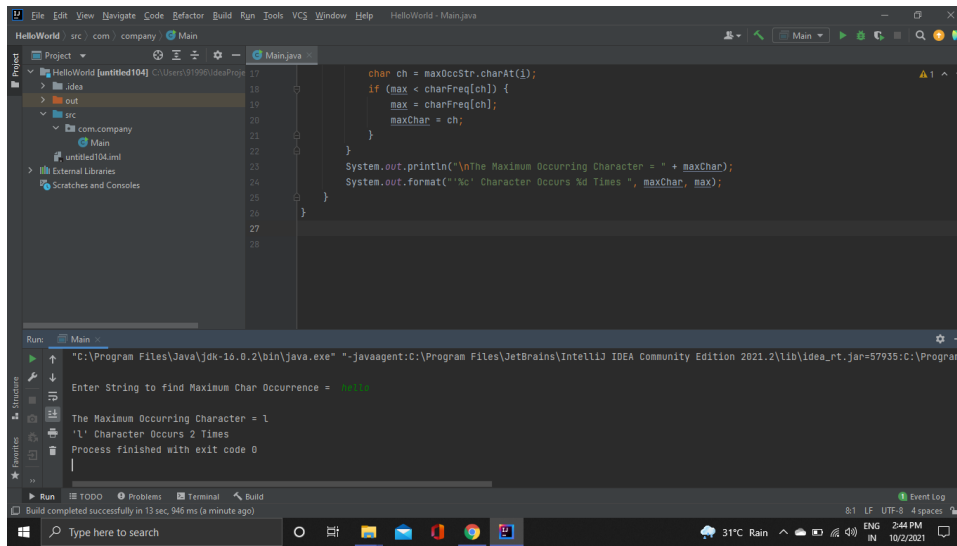
```
        i++;
        else if (j < second.length() && second.charAt(j) == result.charAt(k))
            j++;
        else {
            return false;
        }
        k++;
    }
    if (i < first.length() || j < second.length()) {
        return false;
    }
    return true;
}
public static void main(String[] args) {
    String first = "XY";
    String second = "12";
    String[] results = {"1X2", "Y1X2", "Y21XX"};
    for (String result : results) {
        if (checkLength(first, second, result) == true && shuffleCheck(first, second, result) == true) {
            System.out.println(result + " is a valid shuffle of " + first + " and " + second);
        }
        else {
            System.out.println(result + " is not a valid shuffle of " + first + " and " + second);
        }
    }
}
```

11. the highest occurred character in a String

For example if input is "aaaaaaaaaaaaaaaaabbbbccddddeeeeee" it should return "a".





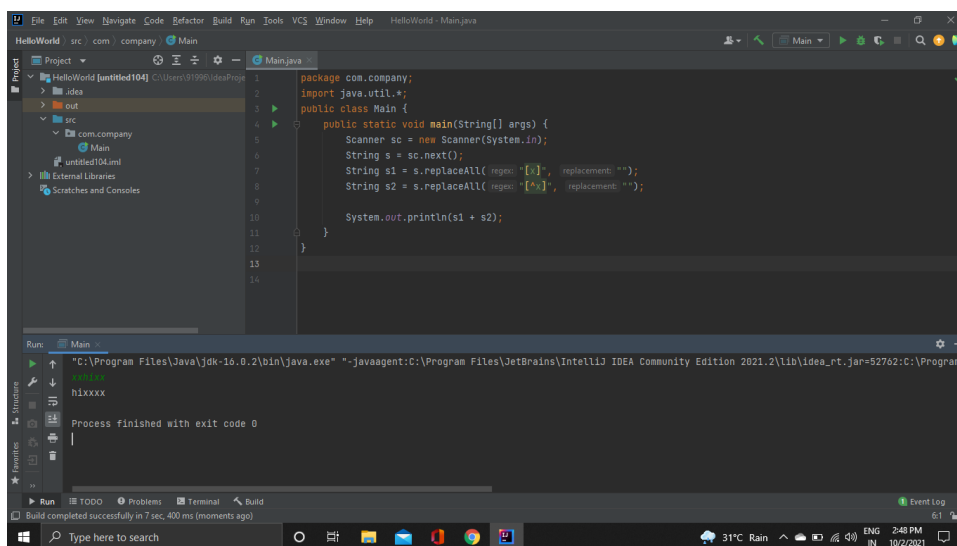
12. Write a program to read a string where all the lowercase 'x' chars have been moved to the end of the string.

Sample Input 1:

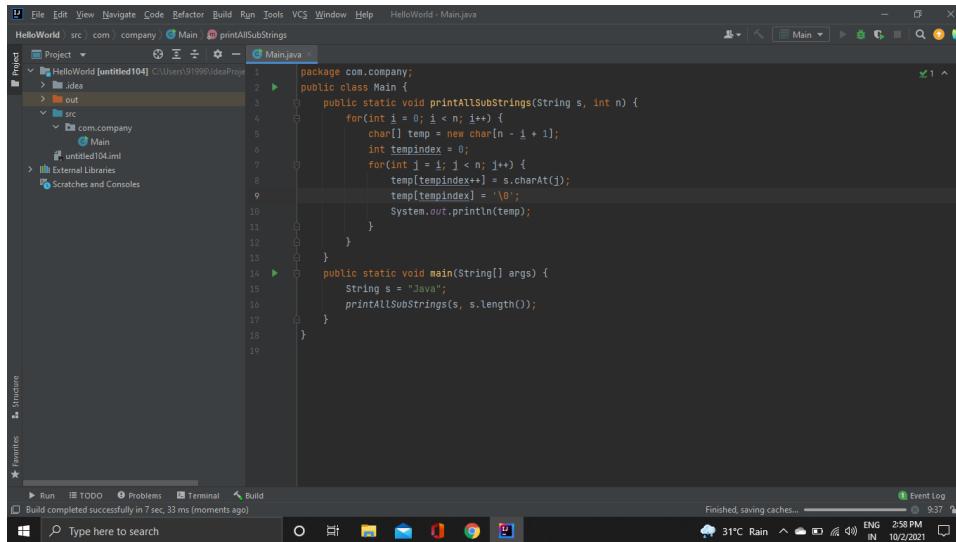
xxhixx

Sample Output 1:

Hixxxx



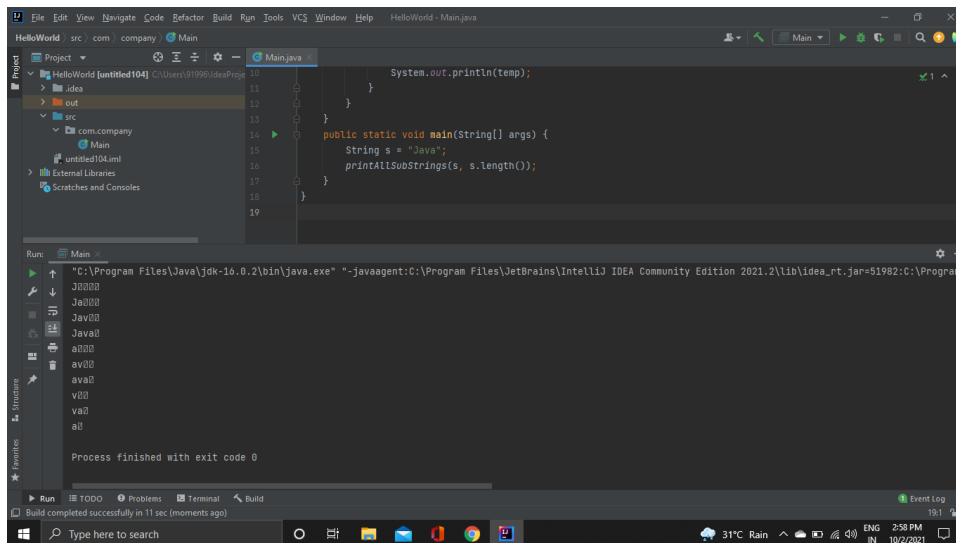
13. To Print All Possible Substrings Of A String



The screenshot shows the IntelliJ IDEA IDE with a project named 'HelloWorld'. The 'Main.java' file is open, displaying the following code:

```
1 package com.company;
2 public class Main {
3     public static void printAllSubStrings(String s, int n) {
4         for(int i = 0; i < n; i++) {
5             char[] temp = new char[n - i + 1];
6             int tempindex = 0;
7             for(int j = i; j < n; j++) {
8                 temp[tempindex++] = s.charAt(j);
9                 temp[tempindex] = '\0';
10                System.out.println(temp);
11            }
12        }
13    }
14    public static void main(String[] args) {
15        String s = "Java";
16        printAllSubStrings(s, s.length());
17    }
18 }
19
```

The bottom status bar indicates 'Build completed successfully in 7 sec, 33 ms (moments ago)'.



The screenshot shows the IntelliJ IDEA IDE with the 'Main.java' file open. The 'Run' tab is active, displaying the output of the program:

```
Run: Main
"\"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea_rt.jar=51982:C:\Program
30000
Java0
Java0
a000
av00
ava0
v00
va0
a0

Process finished with exit code 0
```

The bottom status bar indicates 'Build completed successfully in 11 sec (moments ago)'.